

U.S. Patent and Trademark Office

## Electronic Filing System (EFS) Data Electronic Patent Application Submission USPTO Use Only

EFS ID: 19320  
Application ID: 10065551  
Title of Invention: High-Power Pulsed Magnetically Enhanced Plasma Processing  
First Named Inventor: Roman Chistyakov  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2002-10-29   
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: ZON-004  
Digital Certificate Holder: cn=Kurt Rauschenbach, ou=Registered Attorneys, ou=Patent and Trademark Office, ou=Department of Commerce, o=U.S. Government, c=US  
Certificate Message Digest: Fm9STclX8IxH2ATmd+5Mjw==  
Total Fees Authorized: \$607.0

Payment Category: DA – Deposit Account  
Deposit Account Number: 501211  
Deposit Account Name: Kurt Rauschenbach

# TRANSMITTAL FORM

jc474 U.S. PTO  
10/065551  
10/29/02

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket  
Number:

ZON-  
004

Submission Type: Utility Patent  
Filing

## High-Power Pulsed Magnetically Enhanced Plasma Processing

First Named Inventor: Mr. Roman Chistyakov

SUBMITTED BY

Name: Dr. Kurt Rauschenbach  
Registration Number: 40,137  
Electronic Signature Mark: kr Date Signed: 20021029

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*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

Attached Files:

declaration	DCL.tif
small-entity	VS.tif
declaration	POA.tif
bibd-transmittal	ZON-004apds.xml

specification ZON-004final.xml  
fee-transmittal ZON-004fee.xml

**Attached Image File(s):**

DCL.tif

VS.tif

POA.tif

**Comments:**

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76)**

**Title of Invention****High-Power Pulsed Magnetically Enhanced Plasma Processing**

As the below named inventor(s), I/we declare that:

This declaration is directed to:

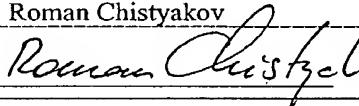
The attached application, or  
 Application No. \_\_\_\_\_, filed on \_\_\_\_\_,  
 as amended on \_\_\_\_\_ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

**FULL NAME OF INVENTOR(S)**Inventor one: Roman ChistyakovSignature:  Citizen of: USA

Inventor two: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: \_\_\_\_\_

Inventor three: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: \_\_\_\_\_

Inventor four: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: \_\_\_\_\_

Additional inventors are being named on \_\_\_\_\_ additional form(s) attached hereto.

Burden Hour Statement: This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.83. The information is used by the public to file (and the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO

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<b>STATEMENT CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) &amp; 1.27(c))--SMALL BUSINESS CONCERN</b>	Docket Number (Optional) <b>ZON-004</b>
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Applicant, Patentee, or Identifier: Roman Chistyakov  
 Application or Patent No.: Unassigned  
 Filed or Issued: October 24, 2002  
 Title: High-Power Pulsed Magnetically Enhanced Plasma Processing

I hereby state that I am

the owner of the small business concern identified below.  
 an official of the small business concern empowered to act on behalf of the concern identified below.

NAME OF SMALL BUSINESS CONCERN Zond CorporationADDRESS OF SMALL BUSINESS CONCERN 137A High Street, Mansfield, Massachusetts 02048

I hereby state that the above identified small business concern qualifies as a small business concern as defined in 13 CFR Part 121 for purposes of paying reduced fees to the United States Patent and Trademark Office. Questions related to size standards for a small business concern may be directed to: Small Business Administration, Size Standards Staff, 409 Third Street, SW, Washington, DC 20416.

I hereby state that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

the specification filed herewith with title as listed above.  
 the application identified above.  
 the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern, or organization having rights in the invention must file separate statements as to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization having any rights in the invention is listed below:  
 no such person, concern, or organization exists.  
 each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

NAME OF PERSON SIGNING Roman ChistyakovTITLE OF PERSON IF OTHER THAN OWNER President and CEOADDRESS OF PERSON SIGNING 137A High Street, Mansfield, Massachusetts 02048SIGNATURE Roman Chistyakov DATE 10/24/02

Burden Hour Statement: This form is estimated to take 0 2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/81 (02-01)

Approved for use through 10/31/2002, OMB 0651-0035

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### POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	Unassigned
Filing Date	October 24, 2002
First Named Inventor	Roman Chistyakov
Title	High-Power Pulsed ...
Group Art Unit	
Examiner Name	
Attorney Docket Number	ZON-004

I hereby appoint:

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Name	Registration Number
Kurt Rauschenbach	40,137

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I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.  
*Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).*

SIGNATURE of Applicant or Assignee of Record

Name	Roman Chistyakov
Signature	<i>Roman Chistyakov</i>
Date	October 24, 2002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below.

# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

**Small Entity**

Small Business Concern

**TOTAL FEES AUTHORIZED: \$ 607**

**The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:**

Deposit Account Number: 501211



Deposit Account Name: Rauschenbach Patent Law Group

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

**SUBMITTED BY**

Authorized Name: Kurt Rauschenbach

Electronic Signature Mark: kr

Date Signed: 20021022

**BASIC FILING FEE**

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	2001	\$ 370

Subtotal For Basic Filing Fee: \$ 370

**EXTRA CLAIM FEES**

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 37	2202	\$ 9	17	\$ 153
Independent Claims: 5	2201	\$ 42	2	\$ 84

~~SEARCHED INDEXED SERIALIZED FILED  
APR 11 1988 CLERK, U.S. DISTRICT COURT~~

**Subtotal For Extra Claims Fees: \$ 237**